

SCHWEGMAN ■ LUNDBERG ■ WOESSNER ■ KLUTH

**United States Patent Application**  
**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **REGISTER ROTATION PREDICTION AND PRECOMPUTATION.**

The specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. § 1.56 (attached hereto). I also acknowledge my duty to disclose all information known to be material to patentability which became available between a filing date of a prior application and the national or PCT international filing date in the event this is a Continuation-In-Part application in accordance with 37 C.F.R. § 1.63(e).

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

**No such claim for priority is being made at this time.**

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**No such claim for priority is being made at this time.**

Attorney Docket No.: 884.368US1

Serial No. not assigned

Filing Date: not assigned

Page 3 of 5

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inventor number 1 : Hong WangCitizenship: United States of AmericaResidence: Fremont, CAPost Office Address: 39877 Sundale Drive  
#105  
Fremont, CA 94538

Signature: \_\_\_\_\_

Hong Wang

Date: \_\_\_\_\_

Mar 20, 2001Full Name of joint inventor number 2 : Christopher J. HughesCitizenship: United States of AmericaResidence: Urbana, ILPost Office Address: 204 N. Harvey Street  
#206  
Urbana, IL 61801

Signature: \_\_\_\_\_

Christopher J. Hughes

Date: \_\_\_\_\_

☒ Additional inventors are being named on separately numbered sheets, attached hereto.Full Name of joint inventor number 3 : Ralph KlingCitizenship: GermanyResidence: Sunnyvale, CAPost Office Address: 1422 Bedford Avenue  
Sunnyvale, CA 94087

Signature: \_\_\_\_\_

Ralph Kling

Date: \_\_\_\_\_

3/20/01Full Name of joint inventor number 4 : Yong-Fong LeeCitizenship: United States of AmericaResidence: San Jose, CAPost Office Address: 7265 Sleepy Creek Dr.  
San Jose, CA 95120

Signature: \_\_\_\_\_

Yong-Fong Lee

Date: \_\_\_\_\_

3/19/2001Full Name of joint inventor number 5 : Daniel M. LaveryCitizenship: United States of AmericaResidence: Santa Clara, CAPost Office Address: 3131 Homestead Rd. #23A  
Santa Clara, CA 95051

Signature: \_\_\_\_\_

Daniel M. Lavery

Date: \_\_\_\_\_

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Full Name of joint inventor number 6 : John ShenCitizenship: United States of AmericaResidence: San Jose, CAPost Office Address: 2303 Quail Bluff Place  
San Jose, CA 95121

Signature: \_\_\_\_\_

John Shen

Date: \_\_\_\_\_

Mar. 19, 2001Full Name of joint inventor number 7 : Jamison CollinsCitizenship: United States of AmericaResidence: Los Gatos, CAPost Office Address: 134 Old Adobe Way  
Los Gatos, CA 95032

Signature: \_\_\_\_\_

Jamison Collins

Date: \_\_\_\_\_

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Filing Date: not assigned

Page 5 of 5

#### § 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) It establishes, by itself or in combination with other information, a *prima facie* case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the applicant takes in:
  - (i) Opposing an argument of unpatentability relied on by the Office, or
  - (ii) Asserting an argument of patentability.

A *prima facie* case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

SCHWEGMAN ■ LUNDBERG ■ WOESSNER ■ KLUTH

# United States Patent Application

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I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

|                        |                 |                             |                 |                       |                   |
|------------------------|-----------------|-----------------------------|-----------------|-----------------------|-------------------|
| Aldous, Alan K.        | Reg. No. 31,905 | Kacvinsky, John             | Reg. No. 40,040 | Peterson, David C.    | Reg. No. P-47,857 |
| Anglin, J. Michael     | Reg. No. 24,916 | Kalis, Janal M.             | Reg. No. 37,650 | Prout, William F.     | Reg. No. 33,995   |
| Arora, Suneel          | Reg. No. 42,267 | Kalson, Seth Z.             | Reg. No. 40,670 | Reynolds, Thomas C.   | Reg. No. 32,488   |
| Beekman, Marvin L.     | Reg. No. 38,377 | Kaplan, David J.            | Reg. No. 41,105 | Schumm, Sherry W.     | Reg. No. 39,422   |
| Bianchi, Timothy E.    | Reg. No. 39,610 | Kaufmann, John D.           | Reg. No. 24,017 | Schwegman, Micheal L. | Reg. No. 25,816   |
| Billion, Richard E.    | Reg. No. 32,836 | Klima-Silberg, Catherine I. | Reg. No. 40,052 | Scott, John C.        | Reg. No. 38,613   |
| Black, David W.        | Reg. No. 42,331 | Kluth, Daniel J.            | Reg. No. 32,146 | Seddon, Kenneth M.    | Reg. No. 43,105   |
| Brake, R. Edward       | Reg. No. 37,784 | Lacy, Rodney L.             | Reg. No. 41,136 | Seeley, Mark          | Reg. No. 32,299   |
| Brennan, Leoniede M.   | Reg. No. 35,832 | Lam, Peter                  | Reg. No. 44,855 | Skabrat, Steven P.    | Reg. No. 36,279   |
| Brennan, Thomas F.     | Reg. No. 35,075 | Lemaire, Charles A.         | Reg. No. 36,198 | Skaist, Howard A.     | Reg. No. 36,008   |
| Brooks, Edward J., III | Reg. No. 40,925 | LeMoine, Dana B.            | Reg. No. 40,062 | Smith, Michael G.     | Reg. No. 45,368   |
| Burge, Ben             | Reg. No. 42,372 | Lundberg, Steven W.         | Reg. No. 30,568 | Speier, Gary J.       | Reg. No. 45,458   |
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| Draeger, Jeffrey S.    | Reg. No. 41,000 | Mates, Robert E.            | Reg. No. 35,271 | Su, Gene I.           | Reg. No. 45,140   |
| Drake, Eduardo E.      | Reg. No. 40,594 | McCrackin, Ann M.           | Reg. No. 42,858 | Terry, Kathleen R.    | Reg. No. 31,884   |
| Embretson, Janet E.    | Reg. No. 39,665 | Mirho, Charles A.           | Reg. No. 41,199 | Tong, Viet V.         | Reg. No. 45,416   |
| Faatz, Cynthia Thomas  | Reg. No. 39,973 | Moore, Charles L., Jr.      | Reg. No. 33,742 | Viksnins, Ann S.      | Reg. No. 37,748   |
| Fordenbacher, Paul J.  | Reg. No. 42,546 | Nagy, Paul                  | Reg. No. 37,896 | Vogel, Peter J.       | Reg. No. 41,363   |
| Forrest, Bradley A.    | Reg. No. 30,837 | Nama, Kash                  | Reg. No. 44,255 | Wells, Calvin E.      | Reg. No. 43,256   |
| Gamon, Owen J.         | Reg. No. 36,143 | Nelson, Albin J.            | Reg. No. 28,650 | Werner, Raymond J.    | Reg. No. 34,752   |
| Gortych, Joseph E.     | Reg. No. 41,791 | Nielsen, Walter W.          | Reg. No. 25,539 | Winkle, Robert G.     | Reg. No. 37,474   |
| Greaves, John N.       | Reg. No. 40,362 | Novakoski, Leo V.           | Reg. No. 37,198 | Woessner, Warren D.   | Reg. No. 30,440   |
| Haack, John L.         | Reg. No. 36,154 | Padys, Danny J.             | Reg. No. 35,635 | Wong, Sharon          | Reg. No. 37,760   |
| Harris, Robert J.      | Reg. No. 37,346 | Park, Ellen                 | Reg. No. 34,055 | Yates, Steven D.      | Reg. No. 42,242   |
| Hill, Stanley K.       | Reg. No. 37,548 | Parker, J. Kevin            | Reg. No. 33,024 | Young, Charles K.     | Reg. No. 39,435   |
| Jurkovich, Patti J.    | Reg. No. 44,813 | Perdok, Monique M.          | Reg. No. 42,989 |                       |                   |

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Schwegman, Lundberg, Woessner & Kluth, P.A. to the contrary.

Please direct all correspondence in this case to **Schwegman, Lundberg, Woessner & Kluth, P.A.** at the address indicated below:

**P.O. Box 2938, Minneapolis, MN 55402**  
**Telephone No. (612)373-6900**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inventor number 1 : **Hong Wang**

Citizenship: **United States of America**

Residence: **Fremont, CA**

Post Office Address: **39877 Sundale Drive**  
**#105**  
**Fremont, CA 94538**

Signature: \_\_\_\_\_

**Hong Wang**

Date: \_\_\_\_\_

Full Name of joint inventor number 2 : **Christopher J. Hughes**

Citizenship: **United States of America**

Residence: **Urbana, IL**

Post Office Address: **204 N. Harvey Street**  
**#206**  
**Urbana, IL 61801**

Signature: \_\_\_\_\_

**Christopher J. Hughes**

Date: \_\_\_\_\_

**March 16, 2001**

☒ Additional inventors are being named on separately numbered sheets, attached hereto.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inventor number 3 : **Ralph Kling**  
Citizenship: **Germany**  
Post Office Address: **1422 Bedford Avenue  
Sunnyvale, CA 94087**

Residence: **Sunnyvale, CA**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Ralph Kling**

Full Name of joint inventor number 4 : **Yong-Fong Lee**  
Citizenship: **United States of America**  
Post Office Address: **7265 Sleepy Creek Dr.  
San Jose, CA 95120**

Residence: **San Jose, CA**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Yong-Fong Lee**

Full Name of joint inventor number 5 : **Daniel M. Lavery**  
Citizenship: **United States of America**  
Post Office Address: **3131 Homestead Rd. #23A  
Santa Clara, CA 95051**

Residence: **Santa Clara, CA**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Daniel M. Lavery**

Full Name of joint inventor number 6 : **John Shen**  
Citizenship: **United States of America**  
Post Office Address: **2303 Quail Bluff Place  
San Jose, CA 95121**

Residence: **San Jose, CA**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**John Shen**

Full Name of joint inventor number 7 : **Jamison Collins**  
Citizenship: **United States of America**  
Post Office Address: **134 Old Adobe Way  
Los Gatos, CA 95032**

Residence: **Los Gatos, CA**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Jamison Collins**

§ 1.56 Duty to disclose information material to patentability.

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| Hill, Stanley K.       | Reg. No. 37,548 | Parker, J. Kevin            | Reg. No. 33,024 | Young, Charles K.     | Reg. No. 39,435   |
| Jurkovich, Patti J.    | Reg. No. 44,813 | Perdok, Monique M.          | Reg. No. 42,989 |                       |                   |

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Schwegman, Lundberg, Woessner & Kluth, P.A. to the contrary.

Please direct all correspondence in this case to Schwegman, Lundberg, Woessner & Kluth, P.A. at the address indicated below:

P.O. Box 2938, Minneapolis, MN 55402  
Telephone No. (612)373-6900

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Date: \_\_\_\_\_

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Signature: \_\_\_\_\_  
Christopher J. Hughes

Date: \_\_\_\_\_

☒ Additional inventors are being named on separately numbered sheets, attached hereto.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Ralph Kling

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Daniel M. Lavery

Full Name of joint inventor number 6 : John Shen  
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Full Name of joint inventor number 7 : Jamison Collins  
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Jamison Collins

§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

(1) prior art cited in search reports of a foreign patent office in a counterpart application, and

(2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

(1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or

(2) It refutes, or is inconsistent with, a position the applicant takes in:

(i) Opposing an argument of unpatentability relied on by the Office, or

(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) Each inventor named in the application;

(2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.